

FIG. 1

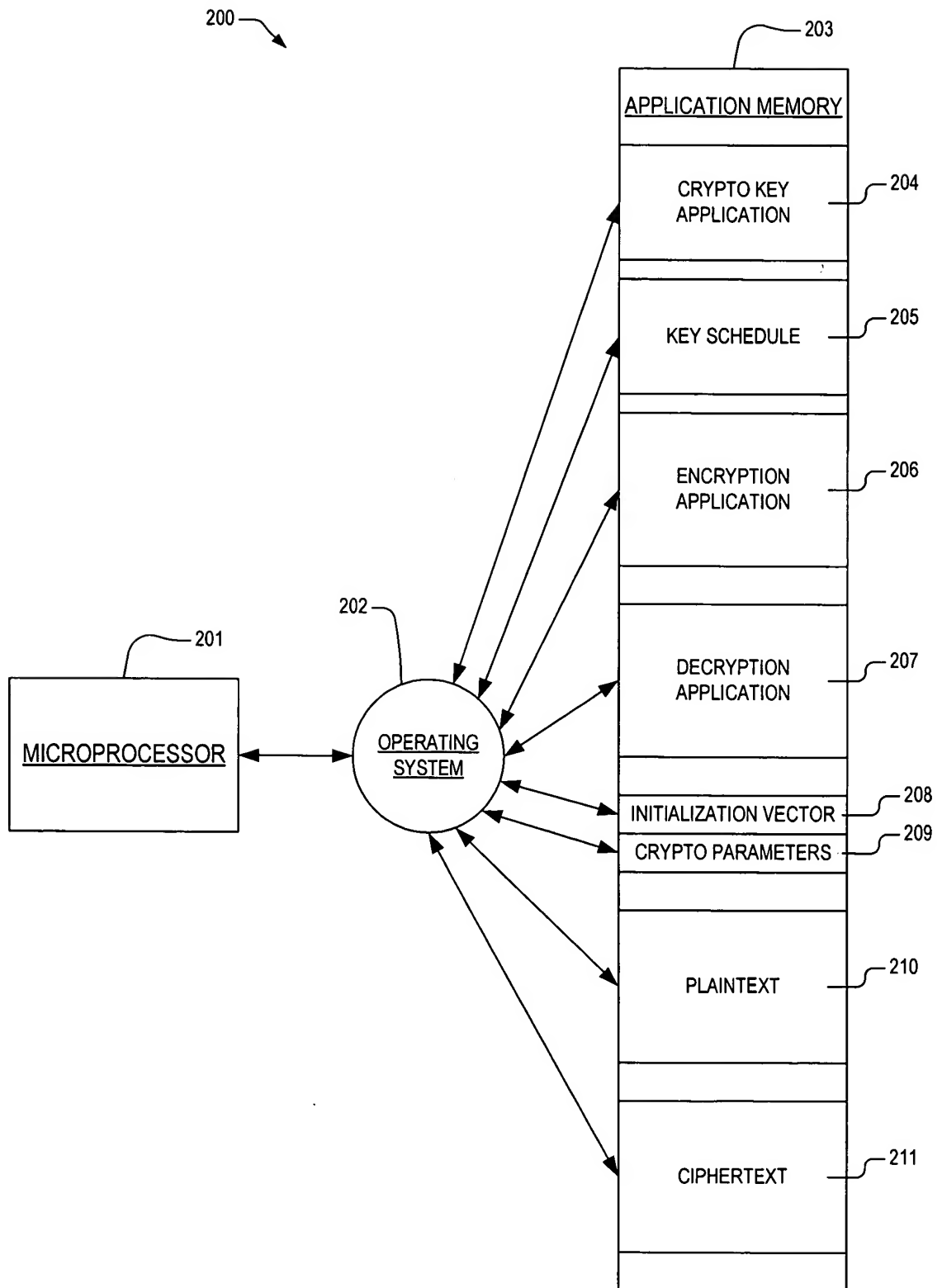


FIG. 2

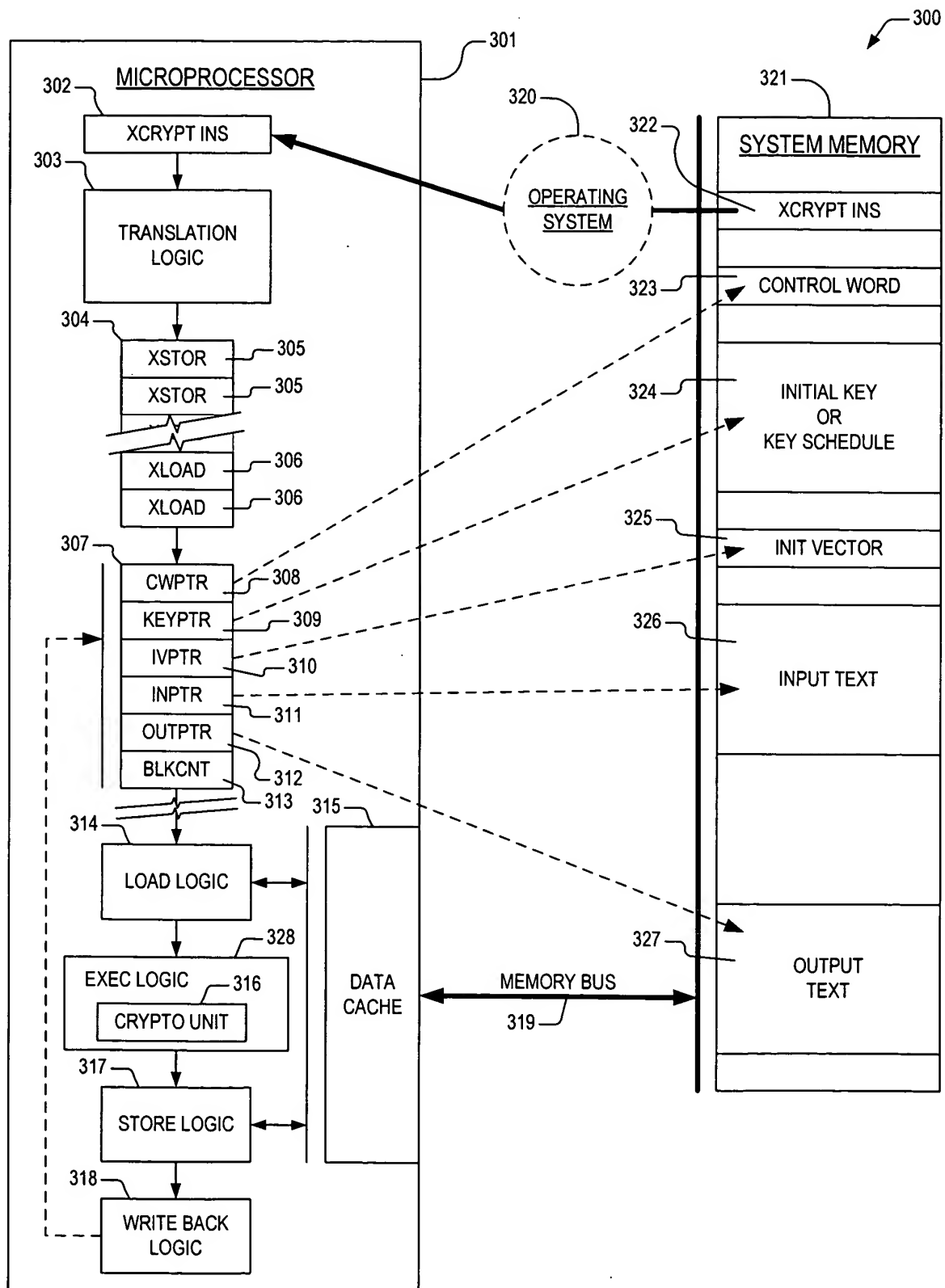


FIG. 3

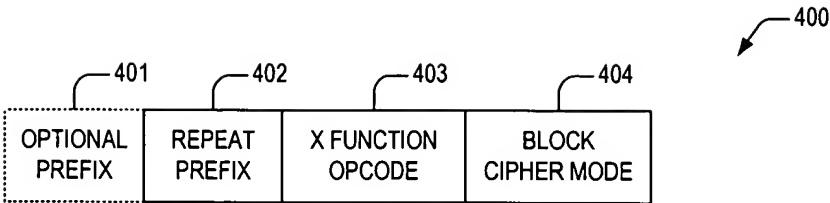


FIG. 4

Table 500 maps BCM values to cipher modes. An arrow points from the label 500 to the table.

<u>BCM VALUE</u>	<u>MODE</u>
0xC8	ELECTRONIC CODE BOOK (ECB)
0xD0	CIPHER BLOCK CHAINING (CBC)
0xE0	CIPHER FEEDBACK (CFB)
0xE8	OUTPUT FEEDBACK (OFB)
ALL OTHER VALUES	RESERVED

FIG. 5



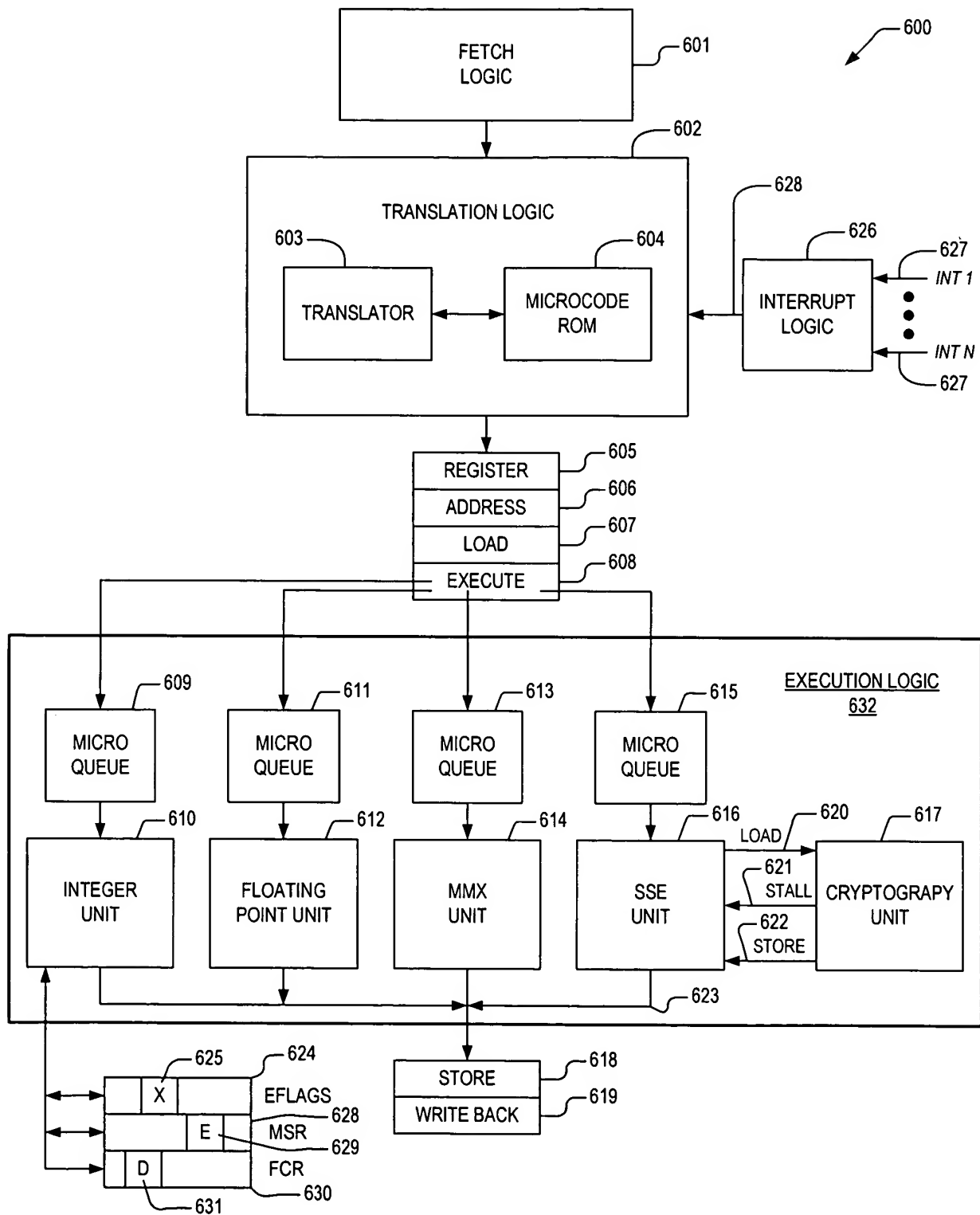


FIG. 6

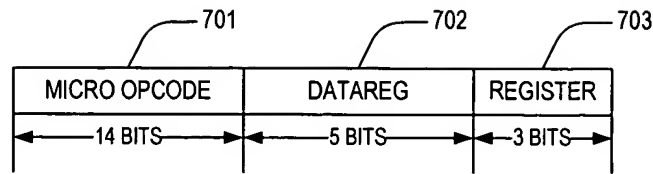


FIG. 7

VALUE	OPERATION
000	RESERVED
001	RESERVED
010	LOAD CONTROL WORD (CW) REGISTER
011	RESERVED
100	LOAD INPUT-0 (IN-0) REGISTER AND START CRYPTOGRAPHY UNIT
101	LOAD INPUT-1 (IN-1) REGISTER
110	LOAD CRYPTO KEY-0 REGISTER (LOWER 128 BITS OF KEY)
111	LOAD CRYPTO KEY-1 REGISTER (UPPER 128 BITS OF KEY)

FIG. 8

VALUE	OPERATION
000	RESERVED
001	RESERVED
010	RESERVED
011	RESERVED
100	STORE OUTPUT-0 (OUT-0) REGISTER
101	STORE OUTPUT-1 (OUT-1) REGISTER
110	RESERVED
111	RESERVED

FIG. 9

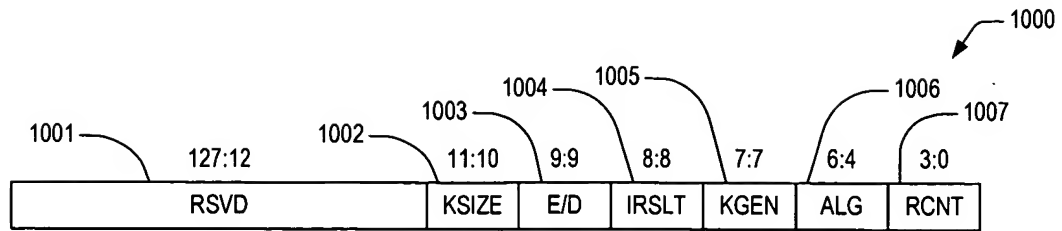


FIG. 10

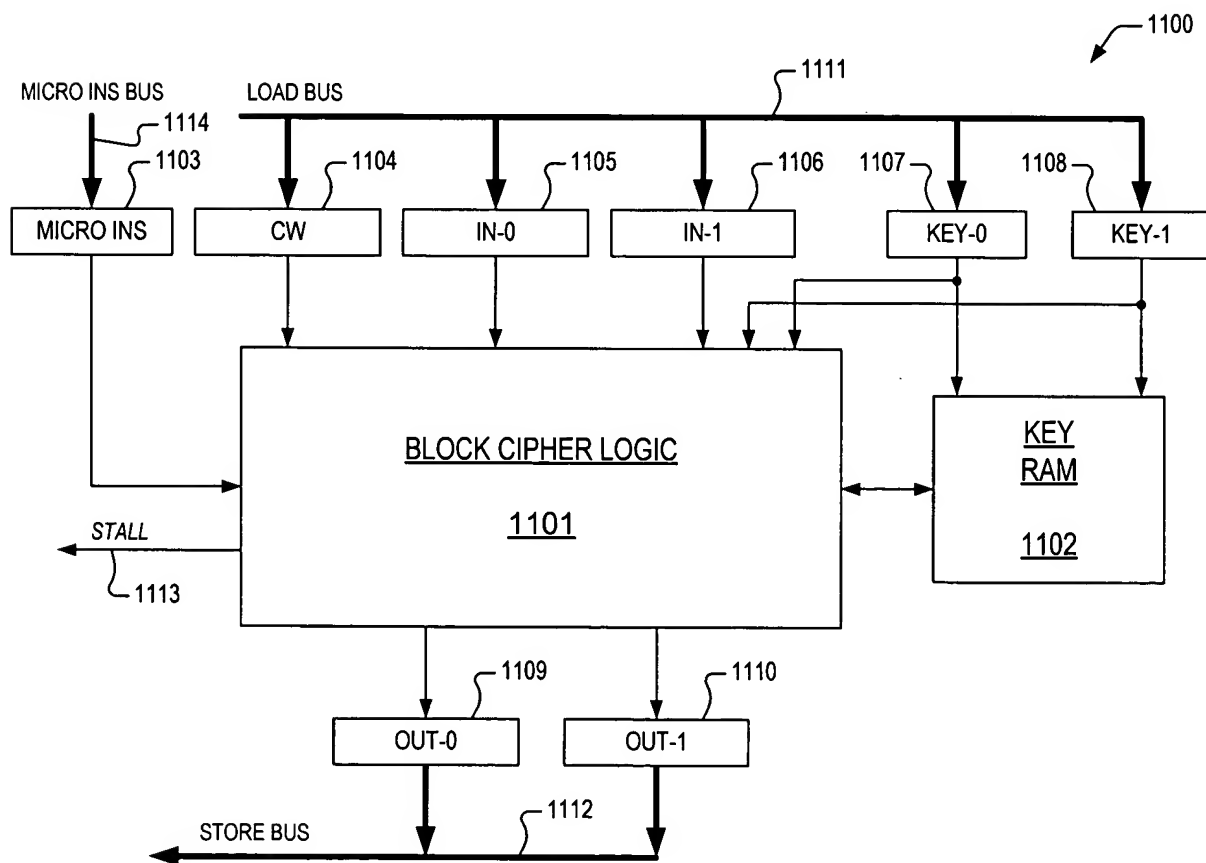


FIG. 11

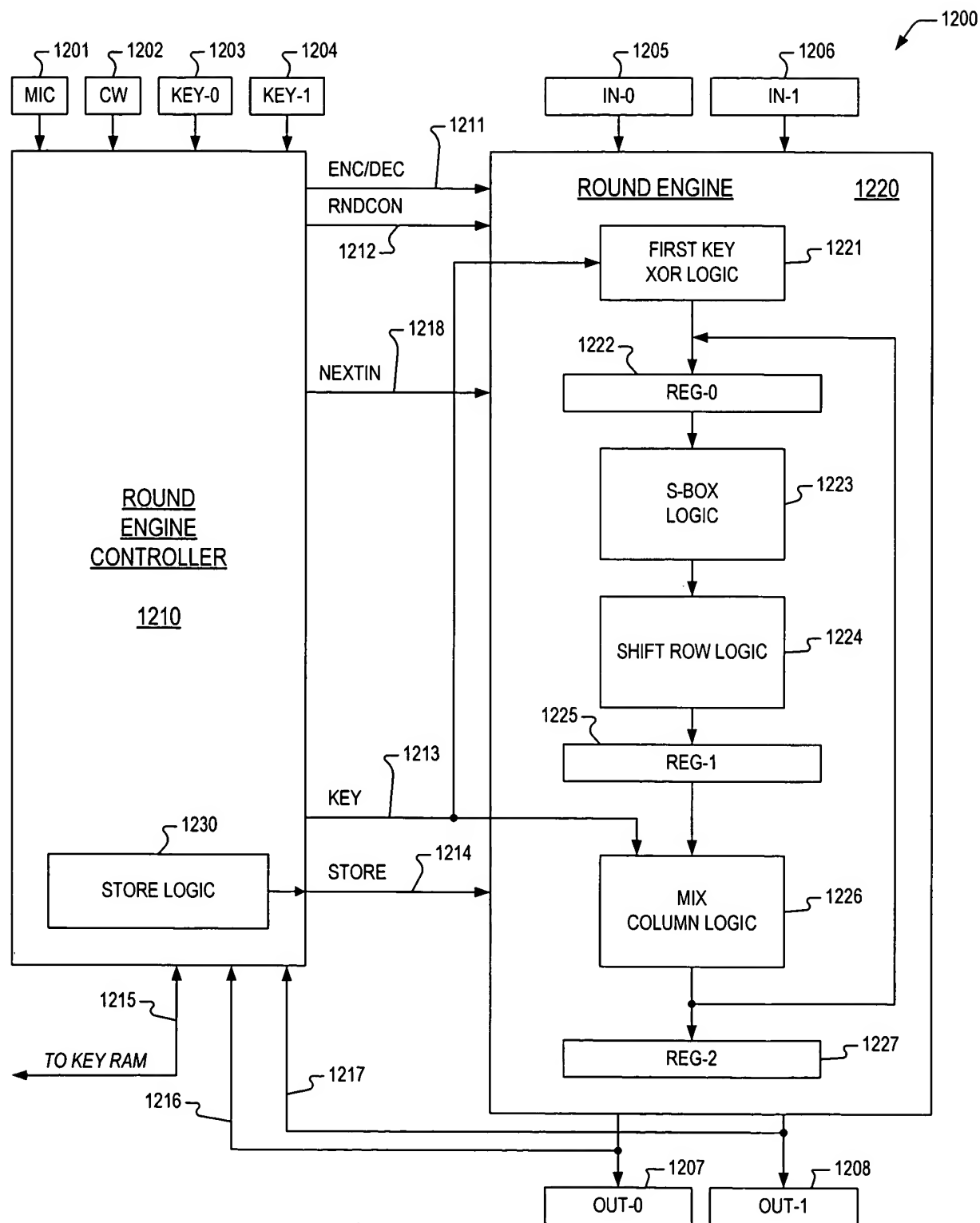


FIG. 12



1300

<u>MICRO INSTRUCTION</u>	<u>COMP CYCLE</u>
LD.IN-0	2
ST.OUT-0	24
LD.IN-0	26
ST.OUT-0	48
LD.IN-0	50
ST.OUT-0	72

24 CYCLES/BLOCK
24 CYCLES/BLOCK

FIG. 13

1400

<u>MICRO INSTRUCTION</u>	<u>COMP CYCLE</u>
LD.IN-0	2
LD.IN-0	4
ST.OUT-0	24
LD.IN-0	26
ST.OUT-0	44
LD.IN-0	46

20 CYCLES/BLOCK

FIG. 14





1500

<u>MICRO INSTRUCTION</u>	<u>COMP CYCLE</u>
LD.IN-1	2
LD.IN-0	4
ST.OUT-1	26
ST.OUT-0	28
LD.IN-1	30
LD.IN-0	32
ST.OUT-1	54
ST.OUT-0	56
LD.IN-1	58
LD.IN-0	60
ST.OUT-1	82
ST.OUT-0	84

28 CYCLES/2 BLOCKS

28 CYCLES/2 BLOCKS

FIG. 15

1600

<u>MICRO INSTRUCTION</u>	<u>COMP CYCLE</u>
LD.IN-1	2
LD.IN-0	4
LD.IN-1	6
LD.IN-0	8
ST.OUT-1	26
ST.OUT-0	28
LD.IN-1	30
LD.IN-0	32
ST.OUT-1	46
ST.OUT-0	48
LD.IN-1	50
LD.IN-0	52

20 CYCLES/2 BLOCKS

FIG. 16

